

Exam. Code : 105701

Subject Code : 1444

B.Sc. Information Technology Ist Sem.

INTRODUCTION TO PROGRAMMING C

Paper-II

Time Allowed—3 Hours]

[Maximum Marks—75

Note :—Attempt 5 questions. Select at least **one** question from each section. **Fifth** question may be selected from any section.

SECTION—A

1. What is the importance of declaring data types ? Explain the different types of data that C programs can handle. 15
2. Explain different input/output statements available in the C language. 15

SECTION—B

3. Explain the use of if-else and switch statements in a C program. 15
4. What is a storage class ? What are the different types of storage classes and how are they used ? Give examples. 15

SECTION—C

5. How is a function defined and used ? What is the significance of a function prototype ? 15

6. Define an array. Write a program to find all even numbers in a given array, and increment each of them by 1.
e.g. {10, 3, 45, 2, 75, 36} → {11, 3, 45, 3, 75, 37}
- 15

SECTION—D

7. What is a pointer variable ? How is it defined and initialized ?
Discuss its advantages and disadvantages. 15
8. What is the difference between a structure and union ?
Explain the concept of a self-referential structure. Where
is it used ? Give an example. 15